t7_yellow_7 (TMZUFuh36DPsvJ5epJL51DMkA1ByEHRf7zJ)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $v16\_waybel\_0 : \iota \Rightarrow o$ be given. Let $k7\_lattice3 : \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $r1\_orders\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8\_lattice3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_lattice3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_orders\_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow ((r1\_orders\_2\ X0\ X1\ X2) \Leftrightarrow (r1\_orders\_2\ (k7\_lattice3\ X0)\ (k8\_lattice3\ X0\ X2)\ (k8\_lattice3\ X0\ X1))))) \tag{1}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow ((v2\_struct\_0\ X0) \Leftrightarrow (v2\_struct\_0\ (k7\_lattice3\ X0))) \tag{2}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (u1\_struct\_0\ X0 = u1\_struct\_0\ (k7\_lattice3\ X0)) \tag{3}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k7\_lattice3\ X0))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k7\_lattice3\ X0))) \Rightarrow ((r1\_orders\_2\ (k7\_lattice3\ X0)\ X1\ X2) \Leftrightarrow (r1\_orders\_2\ X0\ (k9\_lattice3\ X0\ X2)\ (k9\_lattice3\ X0\ X1))))) \tag{4}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow ((v1\_orders\_2\ (k7\_lattice3\ X0)) \wedge (l1\_orders\_2\ (k7\_lattice3\ X0))) \tag{5}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k7\_lattice3\ X0))) \Rightarrow (k9\_lattice3\ X0\ X1 = X1)) \tag{6}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (k8\_lattice3\ X0\ X1 = X1)) \tag{7}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_orders\_2\ X0)) \Rightarrow ((v16\_waybel\_0\ X0) \Leftrightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.\ (m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow ((r1\_orders\_2\ X0\ X1\ X2) \vee (r1\_orders\_2\ X0\ X2\ X1))))) \tag{8}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_orders\_2\ X0)) \Rightarrow ((v16\_waybel\_0\ X0) \Leftrightarrow (v16\_waybel\_0\ (k7\_lattice3\ X0)))$$